

## TIGERGROUT™ HD High Strength Epoxy Machine Grout



**PRODUCT DESCRIPTION:** Tigergrout™ HD is a three component aggregate filled 100% solids epoxy/amidoamine system designed for grouting applications where good bond strength and flow characteristics are required.

**RECOMMENDED FOR:** Tigergrout™ HD is recommended for anchoring bolts and base plates used in machinery, pumps, generators and other equipment.

**NOT RECOMMENDED FOR:** underwater applications or chemical exposure areas

**SOLIDS BY WEIGHT:**  
100% (+/- 1%)

**VOLATILE ORGANIC CONTENT:**  
zero pounds per gallon

**VISCOSITY (POISE):**  
part A = 6.0, part B = 3.3

**COLOR:**  
part A - clear, part B - amber

**MIX RATIO:**  
approximately .5 Gallon Part A 4.6 pounds, Quart Part B 1.975 pounds, with 25 pounds of aggregate

**PACKAGING INFORMATION:**  
3.5 gallon kit (approximately 0.25 cubic feet or 432 cubic inches) = .5-gallon part A, quart part B and 25 pounds aggregate

**SHELF LIFE:**  
1 year in unopened containers  
**FLEXURAL STRENGTH:** (psi ASTM D790)  
8,850 psi  
**COMPRESSIVE STRENGTH:** (psi ASTM D695)  
9,300 psi  
**TENSILE STRENGTH:** (psi ASTM D638)  
6,580 psi  
**ULTIMATE ELONGATION:**  
2.4 percent  
**HARDNESS:**  
72 Shore D typical  
**ADHESION:**  
420 psi to concrete  
**SHRINKAGE:**  
0.008 maximum  
**THERMAL COEFFICIENT OF EXPANSION:**

28.4 x 10<sup>-6</sup> in/in/degree F

**CURE SCHEDULE:**  
pot life 1.5 gallon volume .....greater than 40 minutes @ 70° F  
tack free .....8-10 hours @ 70° F  
full cure .....3-7 days @ 70°F

**APPLICATION TEMPERATURE:**  
50-110 degrees F

**CHEMICAL RESISTANCE:**  
This product is good against water or aqueous alkali and moderate to poor against mineral acids or organic solvents.

**HEAT DEFLECTION TEMPERATURE:**  
113 °F

**PEAK EXOTHERM:** (quart volume)  
302°F for liquids only (This product when mixed with aggregate can yield peak exotherm temperatures as low as 100 to 120 degrees F with the addition of silica aggregate (1 gallon mass).

**MOISTURE INSENSITIVITY:**  
Products can be used on dry to damp concrete or cement

**DOT CLASSIFICATIONS:**  
Part A "not regulated"  
Part B "CORROSIVE LIQUID N.O.S., 8, UNI1760, PGIII"

**PRIMER:** None necessary  
**TOPCOAT:** None required.

**LIMITATIONS:**

- Colors may vary from batch to batch due to variations in feed stock.
- Color stability may be affected by environmental conditions like high humidity or chemical exposure.
- Substrate temperatures must be 5° F above dew point.
- All new concrete must be cured for at least 30 days prior to application.
- Improper mixing may result in product failure.
- We recommend that pours over 4" require multiple pour applications to help control exotherm.

- Physical properties are typical values and not specifications.
- Please see reverse side for limitations of our liability and warranty.
- See reverse side for application procedures.

### MIXING AND APPLICATION INSTRUCTIONS

1) **PRODUCT STORAGE:** Store product in an area to bring the material to normal room temperature before using. Continuous storage should be between 60-90 degrees F. Low temperatures or large temperature fluctuations may cause product crystallization.

2) **SURFACE PREPARATION:** Any loose concrete, joint compound or other material must be removed to leave a clean sound bonding surface. Make certain that the surface where the product is to be applied is clean, sound, free of all laitance, dirt, dust, oil, grease, water or foreign contaminants. Make sure the surface temperature is within the recommended range during the application as well as up to 48 hours after the placement of the material.

3) **PRODUCT MIXING:** Mix part A and part B together thoroughly being sure to scrape the sides and bottom of the container. Mix the materials with slow speed mixing equipment or by hand mixing to avoid mixing in air. After the material is thoroughly mixed, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to use to add the aggregate to the liquids that have been mixed. After the aggregate is added to the mixed liquids, mix well again. Improper mixing may result in product failure.

4) **PRIMING:** No priming is necessary.

5) **PRODUCT APPLICATION:** Apply the product by pouring or pumping the mixture from the container into the area to be grouted. Use a hand trowel or other suitable tool to help move or level the area when necessary or to force material into hard to reach areas under machinery. Allow sufficient time for the material to cure, and remember, as the temperature becomes lower this product will take additional time to cure.

6) **RECOAT OR TOPCOATING:** For pours that are greater than 4 inches in depth, use multiple pours to control the exotherm.

7) **CLEANUP:** Use xylene or ketone solvents.

8) **RESTRICTIONS:** Restrict the use of the repaired area to light duty until the material has fully cured. Avoid contact with chemicals until the material has cured. It is also best to let the repair area remain free from standing water until the material is fully cured.

Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

## **NOTICE TO BUYER:**

### **DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY**

*We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.***